

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
UCT-0039

In Re Application Of: **WELLER, et al.**

Serial No.

10/656,868

Filing Date

September 4, 2003

Examiner

Group Art Unit

Title: **VIRAL RECOMBINASES, RELATED ARTICLES, AND METHODS OF USE THEREOF**

Address to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

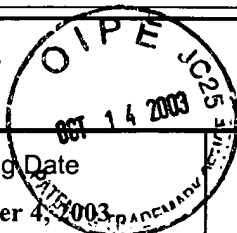
OR

☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
UCT-0039

In Re Application: WELLER, et al.



Serial No.

10/656,868

Filing Date

September 4, 2003

Examiner

Group Art Unit

VIRAL RECOMBINASES, RELATED ARTICLES, AND METHODS OF USE THEREOF

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. 06-1130 as described below.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F:

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited on October 10, 2003 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Marjorie R. Humes
Signature of Person Mailing Correspondence

Marjorie R. Humes

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

Karen A. LeCuyer
Signature

Dated: October 10, 2003

Karen A. LeCuyer

Registration No. 51,928

Telephone: (860) 286-2929

CC:

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)Applicant(s): **WELLER et al.**

Docket No.

UCT-0039

Serial No.

10/656,868

Filing Date

September 4, 2003

Examiner

Group Art Unit

Invention: **OVERLAPPING RECOMBINASES, RELATED ARTICLES, AND METHODS OF USE THEREOF**I hereby certify that this **Information Disclosure Statement***(Identify type of correspondence)*

is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on **October 10, 2003***(Date)***Marjorie R. Humes***(Typed or Printed Name of Person Mailing Correspondence)*

A handwritten signature in cursive script that reads "Marjorie R. Humes".

*(Signature of Person Mailing Correspondence)***Note: Each paper must have its own certificate of mailing.**

Transmittal of Information Disclosure Statement (2 pages)

Form 1449 (5 pages)

Cited Art (8 foreign patents; 44 articles)

Postcard Receipt

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UCT-0039		SERIAL NO. 10/656,868	
Information Disclosure Statement by Applicant (Use several sheets if necessary)				APPLICANT WELLER et al.			
(37 cfr 1.98(b))				FILING DATE September 4, 2003		GROUP	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,736,866	04/12/1988	Leder et al.			
		4,853,230	08/01/1989	Lovgren et al.			
		4,873,191	10/10/1989	Wagner et al.			
		5,422,120	06/06/1995	Kim			
		5,714,353	02/03/1998	Pathak et al.			
		5,741,486	04/21/1998	Pathak et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION								
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		EP 0 225 189 B1	07.10.92	European				
		EP 0 465 529 B1	29.04.98	European				
		EP 0 524 968 B1	07.06.95	European				
		EP 0 827 545 B1	27.02.02	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)			
			Altschul et al., (1990), "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , Vol. 215, 403-410.
			Altschul et al., (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", <i>Nucleic Acids Res.</i> , Vol. 25, No. 17, 3389-3402.
			Better et al. (1988), " <i>Escherichia coli</i> Secretion of an Active Chimeric Antibody Fragment"; <i>Science</i> , Vol. 240, 1041-1043.
			Bitter et al. (1987), "[33] Expression and Secretion Vectors of Yeast", <i>Methods in Enzymology</i> , Vol. 153, 516-544.

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published.... Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UCT-0039		SERIAL NO. 10/656,868	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b))				APPLICANT WELLER et al.			
				FILING DATE September 4, 2003		GROUP	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,945,339	08/31/1999	Holloman et al.				
	6,096,534	08/01/2000	Barsov et al.				
	6,140,111	10/31/2000	Riviere et al.				
	6,190,907	02/20/2001	Kim et al.				
	6,355,412	03/12/2002	Stewart et al.				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	
WO 91/16024	31.10.91	World					
WO 91/16116	31.10.91	World					
WO 91/17424	14.11.91	World					
WO 95/13796	26.05.95	World					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)			
			Bradley et al., (1986), "Embryo-Derived Stem Cells: A Tool for Elucidating the Developmental Genetics of the Mouse", <i>Current Topics in Dev. Biol.</i> , Vol. 20, 357-371.
			Copeland, et al., (2001), "Recombineering: A Powerful New Tool For Mouse Functional Genomics", <i>Nat. Rev. Genet.</i> , Vol. 2, 769-779.
			Doetschman et al., (1985), "The <i>in vitro</i> development of blastocyst-derived embryonic stem cell lines: formation of visceral yolk sac, blood islands and myocardium, <i>J. Embryol. Exp. Mol. Biol.</i> , Vol. 87, 27-45.
			Findeis et al., (1993), "Targeted delivery of DNA for gene therapy via receptors", <i>Trends in Biotechnol.</i> , Vol. 11, 202-205.

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UCT-0039	SERIAL NO. 10/656,868
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b))				APPLICANT WELLER et al.	
				FILING DATE September 4, 2003	GROUP
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)					
			Friedman, et al., (2001), "Bacteriophage lambda: alive and well and still doing its thing" <i>Curr Opin Microbiol</i> ; Vol. 4, 201-207.		
			Goldstein, et al., (1998), "The Exonuclease Activity of HSV-1 UL12 is Required for <i>in Vivo</i> Function; <i>Virology</i> , Vol. 244, 442-457.		
			Gordon, Jon W., (1989), "Transgenic Animals"; <i>International Review of Cytology</i> , Vol. 115, 171-229.		
			Haensler et al., (1993), "Synthesis and Characterization of a Trigalactosylated Bisacridine Compound To Target DNA to Hepatocytes"; <i>Bioconjugate Chem</i> , Vol. 4, 85-93.		
			Hill, et al., (2000); "BAC Trimming: Minimizing Clone Overlaps", <i>Genomics</i> , Vol. 64, 111-113.		
			Ikari et al., (2001); " α 1-Proteinase Inhibitor, α 1-Antichymotrypsin, and α 2-Macroglobulin Are the Antiapoptotic Factors of Vascular Smooth Muscle Cells", <i>Journal of Biological Chemistry</i> , Vol. 276, No. 15, 11798-11803.		
			Ioffe et al., (1995); "WW6: An embryonic stem cell line with an inert genetic marker that can be traced in chimera"; <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, 7357-7361.		
			Karin, et al., (1990); "Methods for assessing the statistical significance of molecular sequence features by using general scoring schemes"; <i>Proc. Natl. Acad. Sci., U.S.A.</i> , Vol. 87, 2264-2268.		
			Lavitano et al., (1989); "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs; Genetic Transformation of Mice"; <i>Cell</i> , Vol. 57, 712-723.		
			Ledley, et al., (1991); "Clinical Considerations in the Design of Protocols for Somatic Gene Therapy"; <i>Human Gene Therapy</i> , Vol. 2, 77-83.		
			Ledley, et al., (1996); "Pharmaceutical Approach to Somatic Gene Therapy"; <i>Pharmaceutical Research</i> , Vol. 13, 1595-1613.		
			Lee, et al., (2001); "A Highly Efficient <i>Escherichia coli</i> -Based Chromosome Engineering System Adapted for Recombinogenic Targeting and Subcloning of BAC DNA"; <i>Genomics</i> , Vol. 73, 56-65.		
EXAMINER			DATE CONSIDERED		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UCT-0039	SERIAL NO. 10/656,868
Information Disclosure Statement by Applicant (Use several sheets if necessary)				APPLICANT WELLER et al.	
				FILING DATE September 4, 2003	GROUP
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)					
			Legan et al, (1975); "Role of Estrogen as Initiator of Daily LH Surges in the Ovariectomized Rat ^{1,2} "; <i>Endo</i> ; Vol. 96, 50-56.		
			Lo (1983); "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations Without Tandem Insertions"; <i>Mol. Cell Biol.</i> , Vol. 3, No. 10, 1803-1814.		
			Logan, et al., (1984); "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection"; <i>Proc. Natl. Acad. Sci. U.S.A.</i> , Vol. 81, 3655-3659.		
			Lowy, et al., (1980); "Isolation of Transforming DNA: Cloning the Hamster apt Gene"; <i>Cell</i> , Vol. 22, 817-823.		
			Muyrers, et al., (2000); "RecE/RecT and Red α /Red β initiate double-stranded break repair by specifically interacting with their respective partners"; <i>Genes & Dev.</i> , Vol. 14, 1971-1982.		
			Muyrers, et al., (2000); "Point mutation of bacterial artificial chromosomes by ET recombination"; <i>EMBO Rep.</i> , Vol. 1, 239-243.		
			Muyrers, et al., (2000); "ET-Cloning: Think Recombination First"; <i>Genetic Eng.</i> , Vol. 22, 77-98.		
			Muyrers, et al., (1999); "Rapid modification of bacterial artificial chromosomes by ET-recombination"; <i>Nucleic Acids Res.</i> , Vol. 27, 1555-1557.		
			Muyrers, et al., (2001); "Techniques: Recombinogenic engineering - new options for cloning and manipulating DNA"; <i>Trends in Biochemical Sciences</i> , Vol. 26, No. 5, 325-331.		
			Resnick, et al., (1989); "The Pathophysiology of Urinary Incontinence Among Institutionalized Elderly Persons"; <i>The New England Journal of Medicine</i> ; Vol. 320, No. 1, 1-7.		
			Salier, et al., (1996); "The inter- α -inhibitor family: from structure to regulation"; <i>Biochem Journal</i> ; Vol. 315, 1-9.		
			Stow, N.D., (1992); "Herpes simplex virus type 1 origin-dependent DNA replication in insect cells using recombinant baculoviruses"; <i>J. Gen. Virol.</i> ; Vol. 73; 313-321.		
EXAMINER			DATE CONSIDERED		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published....* Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UCT-0039	SERIAL NO. 10/656,868
Information Disclosure Statement by Applicant (Use several sheets if necessary)				APPLICANT WELLER et al.	
				FILING DATE September 4, 2003	GROUP
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)					
			Szybalska, et al., (1962); "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait"; <i>Proc. Natl. Sci. USA</i> ; Vol. 48, 2026-2034.		
			Thompson, et al., (1989); "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells"; <i>Cell</i> ; Vol. 56; 313-321.		
			Yu, et al., (2000); "An efficient recombination system for chromosome engineering in <i>Escherichia coli</i> "; <i>Proc. Natl Acad. Sci USA</i> ; Vol. 97; 5978-5983.		
			Van Der Putten, et al., (1985); "efficient insertion of genes into the mouse germ line via retroviral vectors"; <i>Proc. Natl. Acad. Sci. USA</i> ; Vol. 82; 6148-6152.		
			Wigler et al., (1977); <i>Cell</i> ; Vol. 11, 233		
			Wu et al., (1991); "Receptor-mediated Gene Delivery <i>in Vivo</i> "; <i>J. Biol. Chem.</i> ; Vol. 266, 14338-14342.		
			Wu et al., (1988); "Receptor-mediated Gene Delivery and Expression <i>in Vivo</i> "; <i>J. Biol. Chem.</i> ; Vol. 263, No. 29, 14621-14624.		
			Wu, et al., (1994); "Incorporation of Adenovirus into a Ligand-based DNA Carrier System Results in Retention of Original Receptor Specificity and Enhances Targeted Gene Expression"; <i>J. Biol. Chem.</i> ; Vol. 269, No. 15, 11542-11546.		
			Zenke, et al., (1990); "Receptor-mediated endocytosis of transferrin-polycation conjugates: An efficient way to introduce DNA into hematopoietic cells"; <i>Proc. Natl. Acad. Sci. USA</i> ; Vol. 87, 3655-3659.		
			Zhang, et al., (2000); "DNA cloning by homologous recombination in <i>Escherichia coli</i> "; <i>Nt. Biotechnol.</i> ; Vol. 18, 1314-1317.		
			NCBI Sequence, Accession M20165; www.ncbi.nlm.nih.gov ; printed 8/15/2002.		
			NCBI Sequence, Accession NP_044613; www.ncbi.nlm.nih.gov ; printed 8/15/2002.		
EXAMINER			DATE CONSIDERED		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** *The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.